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Presidential awards for Lab scientists

By Anne M. Stark
NEWSLINE STAFF WRITER

Edmond Chow and Christine Orme on Tuesday were honored with the 2002 Presidential Early Career Awards for Scientists and Engineers (PECASE) as science's foundation for the future.

The two Laboratory researchers, who were nominated by the Department of Energy's Office of Science for outstanding work they have achieved early in their careers and their potential for future leadership, were presented with their awards from the President's Science Adviser

See **PECASE**, page 7



GORDON YANO/NEWSLINE

Edmond Chow and Christine Orme earned the 2002 Presidential Early Career Awards for Scientists and Engineers (PECASE) for outstanding work they have achieved and their potential for future leadership.

Laboratory's Jose Hernandez selected by NASA to join new astronaut candidates

By Lynda Seaver
NEWSLINE STAFF WRITER

Jose M. Hernandez, on leave from the Laboratory to work at NASA, will soon be trading his suit and tie for that of flight suit. Hernandez is one of the 11 men and women selected by NASA Thursday to join the 2004 Astronaut Candidate Class.

Hernandez, an electrical engineer at the Lab for 15 years before taking a leave of absence to join NASA, had interviewed as a potential astronaut candidate two times before getting the nod on his third orbit. NASA officials were so impressed with his interview three



Jose Hernandez

See **ASTRONAUT**, page 5

'Most intriguing' biotetection paper gets chemical society's attention

By Stephen Wampler
NEWSLINE STAFF WRITER

Sparking interest is one of the things one Lab research team does particularly well.

Chemical Abstracts Service (CAS), a division of the American Chemical Society, has selected a paper written by a team of LLNL researchers as the "most intriguing" paper of the fourth quarter of 2003.

The article, which details the use of the Lab's Autonomous Pathogen Detection System (APDS) to simultaneously detect two bioterrorism agents, was tapped as the "most intriguing" paper out of about 200,000 documents reviewed.

The paper describes experiments conducted by LLNL scientists in collaboration with researchers from the U.S. Army Dugway Proving Grounds' West Desert Test Center in Dugway, Utah. The paper was the cover story for the Oct. 15, 2003 edi-

tion of *Analytical Chemistry* magazine.

CAS scientists view a document as "intriguing" if it contains new, novel or trendsetting scientific research that is likely to be of growing interest over time.

"To have this paper recognized by CAS is a huge honor," said Mary McBride, the paper's lead author and an analytical chemist in the Physics and

See **NAI**, page 7

Firefighters' 'heroic actions' in battling 2003 wildfires recognized by the NNSA

Ten Lab firefighters were honored this week by the National Nuclear Security Administration for their "heroic actions" in fighting two wildfires in Southern California last October.

The Laboratory dispatched three strike teams and 10 firefighters, including two battalion chiefs and two captains, to provide assistance to the crews battling the Grand Prix fire in San Bernardino County and the Cedar fire in San Diego County.

See **FIREFIGHTERS**, page 8

Phil Schultz to end 36-year Lab career in July

By Lynda Seaver
NEWSLINE STAFF WRITER

Come July 1, Phil Schultz plans to begin the next phase of his career: that of retiree.

Schultz, the Lab's chief financial officer, announced he will retire from the Lab after 36 years of having been both an engineer and a senior manager.

"It wasn't an easy decision," Schultz said. "I've absolutely enjoyed my job.

The Lab has been great and the people here are wonderful. So the decision to step away was difficult. I will miss it."

Ask Schultz to reveal his plans for retirement and he won't offer much. He has some travel plans: with grandkids and the rest of his family to Yosemite, followed by trips to Maui and maybe a few cruises. But after giving his luggage a bit of work-

See **SCHULTZ**, page 8



JACQUELINE MCBRIDE/NEWSLINE
Phil Schultz



Exploring America's Asian Pacific roots

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DDLS to shed light on laser spectroscopy

— Page 5



Survivor now on mission to battle cancer

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

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Friday
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A representative from **California Casualty Insurance** will be in the Benefits Office today. Appointments are required and may be scheduled by calling 2-9955. California Casualty offers individual rates to Lab employees by payroll deduction for auto and homeowner/renter insurance. As with any employee-paid insurance coverage employees are encouraged to comparison shop.

...

The second lecture of the joint **LLNL/Naval Postgraduate School lecture** series will be presented by Tom Ramos of the Counterproliferation Analysis and Planning Systems (CAPS) at the Naval Postgraduate School today at 11 a.m. in the Mechanical Engineering auditorium.

Wednesday
12

A **Fidelity retirement counselor** will be available today and Thursday to assist with: assessing the current state of retirement accounts, learning how to plan asset allocation and diversify investments within retirement accounts, as well as identifying income strategies when planning retirement. Fidelity Mutual Funds are available to UC's workplace retirement plan participants in addition to the UC-managed investment pools. If you would like to set up a one-on-one consultation, call 800-642-7131. When calling be sure to specify that you are an LLNL employee.

Up
&
Coming

LLESA's annual Family Day Picnic at Six Flags Marine World, Vallejo, is Saturday, May 15. Park hours are 10 a.m.-7 p.m. LLESA ticket price is \$26.50 for all ages (children 2 and under are free) and includes unlimited access to rides, shows and animal attractions, plus a delicious, all-you-can-eat hot dog buffet between 11:30 a.m. and 1:30 p.m. Guests also receive a complimentary ticket good for another day at Six Flags Marine World during the 2004 season, when they check-in at the picnic area. Tickets must be purchased before Wednesday, May 12, in the Time Zone, Trailer 4128. The Time Zone is open Monday through Friday, 7:30 a.m.-3 p.m.



LAB

BROADCAST
SCHEDULE

"Leading Change and Building Coalitions Through A Public-private Partnership," a talk by Robert Rodriguez of the U.S. Secret Services San Francisco District Office that took place May 4 at UC Davis will be rebroadcast on Lab TV channel 4 at 10 a.m., noon, 2, 4 and 8 p.m. Thursday, May 13, and 4 a.m. Friday, May 14.

RETIREES' CORNER

Gus (Electronics Engineering, 1993) **Olson** attended two conferences in March and April for his UNCLE Credit Union's Supervisory Committee volunteer job. His wife, **Jane** (Mechanical Engineering, 1993) accompanied him to the Monterey conference in March and the San Diego conference in April. In San Diego, they had dinner with **Garith** (Engineering, 2002) and **Amy** (Laboratory Services, 2002) **Helm** who had driven over from LaQuinta, Calif. to visit relatives. They drove on highways 74, 371 and 79 to Temecula's wine country, which they described as half way between Napa and Livermore wine countries.

The next Laboratory blood drive is June 21-24 and will be held in the old central cafeteria (Trailer 4675). Because of the new badge policy for retirees, it will be necessary for blood drive volunteers to call Marie Teuscher (423-7892) in the LLESA office (after 10 a.m.), with your information — full name, social security number and birth date — several days in advance. When you get to the West Gate Badge Office on the day you volunteer, your badge should be ready. Retiree blood donors are also welcomed, but need to go through the same badge process. You can also wait until the day you go to the blood drive and go directly to the West Gate Office, but it will take longer.

We are frequently asked how a retiree can submit a classified ad to *Newsline*. We are working on trying to get an answer from people at the Lab. Because the Livermore Library is moving to its new facility, the LLNL Retirees Travel Slide Group has changed locations for March through

June. The May 25, 2 p.m. meeting is being held in the Livermore City Council Chambers, 3575 Pacific Avenue. This month's show is on "Spectacular Utah and Colorado" by John Stroud. The travel groups meets on the fourth Tuesday at 2 p.m. January through June.

The next retiree luncheon will be Wednesday, May 19, at Cattleman's restaurant. The speaker will be Deputy Director for Operations Glenn Mara. His topic will be "An Update on LLNL Operations." Glenn is a very good speaker and it should be very informative. To make reservations, go to the Retiree Organization Web page at www.llnlretirees.org.

The Retirees Association's Annual Picnic is being held at Ravenswood on June 16. An announcement and reservation form was mailed early May to Retiree Association members. Paid reservations (\$17 each) must be in by June 11. Information is also available on the above noted Web page.

Correction: In last month's Retirees' Corner in the paragraph on retirees who attend the Tri-Valley Self Help for Hard of Hearing group, we erroneously listed one of those attendees as Kristian Daland. He phoned us on his 80th birthday, April 15, to let us know that his correct name is **Kristian Aaland**. Sorry for the error, Kris.

Please send any news or input to Jane or Gus Olson. E-mail: AugustO@aol.com or JaneRupert@aol.com; phone: (925) 443-4349 or snail mail address, 493 Joyce Street, Livermore, CA 94550.

IN MEMORIAM

Charles "Skip" Peters

Charles "Skip" Peters, of Livermore, died April 24. He was 55.

Peters worked at the Lab for 29 years as a machinist and inspector. He started his career at the Lab on May 5, 1975. He served a four-year State Certified Machinist Apprenticeship with the Manufacturing and Material Engineering Division (MMED). During his four years as an apprentice, he won an Apprentice of the Year award. He worked his entire career with MMED as either a state certified journeyman machinist or an American Society for Quality Certified Mechanical Inspectors. Towards the end of his career, Peters was responsible for all of MMED's dimensional inspection gauge calibration and certification.

Prior to joining the Lab, Peters served with the U.S. Army as a warrant officer pilot. After graduating flight school at Fort Rucker, Ala., Peters was sent to Vietnam. While awaiting assignment to a unit, Peters turned down offers to fly gunships or troop carriers, choosing instead to become a "dust off" pilot, assigned to a medical unit and logging more than 1,000 hours of flight time in Huey's (Bell UH-1 "Iroquois") with the 93rd Evacuation

Unit, 45th Medical Company. He transported numerous wounded soldiers and civilians in need to hospitals and MASH units around his operating area in South Vietnam.

Peters was an avid sailor on the San Francisco Bay and in Mexico, and enjoyed working on and around sailboats of all types. Peters planned to retire in 2005 and cruise the Pacific Northwest in his boat, Chaitanya (sanskrit for "Consciousness"), a Tayana 37-foot ketch rigged sailboat.

He is survived by his mother Helois Nilson of San Francisco; his sister Lynn Misztal of Phoenix; his brother Scott Peters of Walnut Creek and his many friends, too numerous to list.

In lieu of flowers, donations should be sent to Sheppard's Gate in Livermore. The Neptune Society will make funeral arrangements.

Newsline

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CORRECTIONS

Employees Labwide donated \$400 in four hours to the collection organized by R Division of the Nonproliferation, Arms Control and International Security Directorate for the Cadigan-Scott family home that will be featured in the season finale of ABC's "Extreme Makeover: Home Edition." The April 30 edition of *Newsline* had the incorrect organization.

The byline on the page 8 security column in the April 30 edition of *Newsline* was incorrect. The byline should have read Pam Poco.

NEWS OF NOTE



Keynote speakers trace America's Asian Pacific heritage

Asian Pacific American Heritage Month events start at the Laboratory next week with presentations by Washington State Senator Paull Shinn and Camille Yuan-Soo-Hoo, LLNL site manager for the National Nuclear Security Administration (NNSA).

Yuan-Soo Hoo will discuss "Asian Americans in the United States: Reflections and a Look Forward," at 11:30 a.m. Tuesday, May 11, in the Bldg. 123 auditorium.

She was appointed the Livermore site manager in December 2002 for the NNSA/U.S. Department of Energy. She is responsible for the operations oversight and contract administration of the Laboratory. With a federal staff of approximately 110 full time employees, she performs federal oversight of safety, security, infrastructure, environmental management, and business and contract management of the multi-program laboratory with an annual budget of approximately \$1.5 billion.

Yuan-Soo Hoo has more than 23 years of experience in DOE financial and business management at the Oakland and Richland (Wash.) Operations Offices. Yuan-Soo Hoo began her career in 1976 at the Richland Operations Office as a budget analyst. She has held progressively more responsible management positions in DOE and NNSA.

Shinn, who is also the author of two books, will present "My American Story: Reflections by State



Paull Shinn



Camille Yuan-Soo-Hoo

Senator Paull Shin," at noon Thursday, May 13, in the Bldg. 123 auditorium.

Born in Korea in 1935, Shinn's mother died and his father abandoned him at age four. He spent the next 10 years begging for food on the streets and sleeping in bus or train stations. He never went to school. When the Korean War broke out in 1950, he was hired as a houseboy by an American soldier, a soldier who would dramatically change his life. The soldier, who has three children of his own, adopted Shinn and brought him to the United States. Shinn took

the soldier's family name of Paull as his own first name.

With the help of his adopted parents, Shinn got his GED, went on to college and earned a Ph.D. in East Asian studies. He has served in the Washington State legislature since 1992, first as a representative and since 1998 as a state senator. Shinn is the author of two books — "Name, Rank and Serial Number," about World War II and Korean prisoners of war and an autobiography, which has been a best seller in Korea and is currently being translated into English.

Emily Sano, director of the Asian Art Museum of San Francisco, will close out APAHM's 2004 speaker series at 11:30 a.m. Thursday, May 20, in the Bldg. 543 auditorium. Voted one of the Bay Area's "most influential business women" in 2003, Sano will discuss the development of the museum. Look for additional information about Sano's talk in upcoming editions of *Newsline* and *NewsOnLine*.

Asian Pacific American Heritage Month activities are sponsored by the Lab's Asian Pacific American Council, Sandia/Livermore Asian Pacific Leadership Committee and the Administration and Human Resources, Chemistry and Materials Science, Safety and Environmental Protection directorates.

BRIEFLY

New training course for supervisors

A 30-minute video training course for managers and supervisors on equal employment opportunity compliance, and compliance with the women's lawsuit settlement agreement is available. All managers and supervisors are required to complete the Web-based training before May 30.

The course is entitled "Supervisory Responsibilities in EEO and Diversity" (ED2110-W). Credit will be given automatically upon completion through L-Train. Supervisors and managers must complete the training before preparation of performance appraisals or participation in ranking sessions.

"Supervisory Responsibilities in EEO and Diversity" is entirely Web-based and can be accessed at http://www-r.llnl.gov/human_resources/training/ED2110/

Laboratory Travel Agency changes name

In a recent acquisition move, Carlson Wagonlit Travel (CWT), the second largest global travel agency and a world leader in business travel management, purchased the Lab's travel management company, TQ3 Travel Solutions. Both companies have fully integrated as one merged organization leveraging their strengths to deliver exceptional service, value, and satisfaction. Laboratory employees will not experience any changes in phone numbers, points of contact or service levels.

Effective immediately, the TQ3 Travel Solutions will officially begin operating as Carlson Wagonlit Travel (CWT). Therefore, employees will see and hear the CWT brand when interfacing with TQ3 representatives who are now employees of CWT. The TQ3 logo will be replaced with the CWT logo on most client-facing materials, such as e-mailed itineraries and invoices, online booking tools, reports, business stationery, etc. In addition, the majority of office and after-hour voice messages, as well as person-

al e-mails, will reflect the CWT brand.

The merger will affect travelers and travel arrangers in the following ways:

- E-mail communication: E-mail communication that originated from "@tq3.com" or "@maritz.com" in the past will now originate from "@carlson.com," including Virtually There itinerary e-mails.

- Telephone answering: When you call or contact the agency service centers, the representative will greet the caller with "Hi, this is <Jane Doe> from Carlson Wagonlit Travel, how may I help you?"

If you have questions or concerns regarding this change, call Victoria Bonoan, 4-3791, or Sarita Evans, 3-1485.

Name your beneficiaries online

A new online process for naming beneficiaries to your UC retirement and life insurance plan benefits is now available. The online process will allow you to review your current beneficiary designations at any time, and to change your beneficiaries as necessary. To use this new process, log on to <http://atyourservice.ucop.edu/> and select "Your Benefits Online" on the right side of the home page. You'll find a link "View Your Beneficiaries" under both "Your Money" and "Your Health & Welfare."

When you go online you will see primary beneficiaries designated for the retirement plan. However, you will not see any insurance beneficiaries previously designated. You should review your retirement beneficiary designation for accuracy and designate insurance beneficiaries.

Remember to review your beneficiary designations periodically and to change your designations if you've had a major life event — marriage, divorce, birth of a child, or a death.

If you have questions, call the LLNL Benefits Office, 2-9955.

Children's Center has open summer slots

The Lab Employee Children's Center has a limited

number of child care spaces available in their school-age summer program. The school-age program serves children who are currently in grades K-5. For further information, contact the Children's Center office at 373-0865.

Family Day at Six Flags Marine World

LLESA's annual Family Day Picnic at Six Flags Marine World, Vallejo is Saturday, May 15. Park hours are 10 a.m. until 7 p.m. LLESA ticket price is \$26.50 for all ages (children 2 and under are free) and includes unlimited access to rides, shows and animal attractions, plus an all-you-can-eat hot dog buffet between 11:30 a.m. and 1:30 p.m. Guests also receive a complimentary ticket good for another day at Six Flags Marine World during the 2004 season, when they check-in at the picnic area. Tickets must be purchased before Wednesday, May 12, in the Time Zone, Trailer 4128. The Time Zone is open Monday through Friday, 7:30 a.m. until 3 p.m.

New CFO Website

The CFO Directorate's revamped internal Website will be available as of Monday, May 10. Highlights of the new Website include: a consistent look and feel across all pages; access to the majority of the CFO content using a drop-down menu for one-click results; and multiple means of site navigation.

For those who are used to accessing CFO content via "MyLLNL" or by going to the CFO home page, no change is required. However, if you have bookmarked specific pages, you will need to re-do your bookmarks. The old site will be available for a limited time at: www-cfo-old. Comments regarding the new site may be directed to Bo Pitsker, the Webmaster, at 3-7469 or pitsker1@llnl.gov.



NEWS YOU CAN USE

Cinco de Mayo

From left: Michael Martin, Maurice Hernandez and Patricia Martinez serve lunches during Wednesday's Cinco de Mayo celebration in the lawn area near the Lab pool. Proceeds from the sale of lunches and tamales went to the Amigos Unidos Networking Group's scholarship fund. Scholarships were awarded during the festivities.



JACQUELINE MCBRIDE/NEWSLINE

New EODD Website offers many Lab resources for career development

With the annual performance appraisal process under way, employees may be thinking about goals for the next year as well as long-term career development. But where can you easily find career and team development resources on the Web? The Employee and Organization Development Division's new Website is designed for both the employee "shopping" for what might be available and for the employee focused on getting specific career development and training information. The Web-content is broad, including policy, services, and development options sorted by category, title, audience, or leadership competencies. For those with minimal dollars, there are links to numerous self-directed learning options with no fee to participants. For those needing guidance and direction, the site is organized by topic and by audience — employee or manager/supervisor. The search engine and calendar make it easy to locate the development options of most interest to you or your organization. Visit - http://www-r.llnl.gov/human_resources/sedd/eodd/

Technical Meeting Calendar

Friday
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INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"What the Martian Meteorites are Trying to Tell Us About Mars; a Historical Tragedy in More Than Two Dozen Fragments," by Ralph Harvey, Case Western Reserve University. Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

CHEMISTRY & MATERIALS SCIENCE / MATERIALS SCIENCE & TECHNOLOGY DIVISION
"Coincident Electron Spectroscopy of Solids," by Konstantin Kouzakov, Nuclear Physics Institute, Lomonosov Moscow State University, Russia. 10 a.m., Trailer 2475, room 108. Contact: Tony Gonis, 2-7150, or Linda Jones, 3-8839.

Monday
10

BIOSECURITY & NANOSCIENCES LABORATORY
"Forensic Analysis for Biological Weapons," by Steve Velsko, NAI/R-Division. 2 p.m., Bldg. 151, room 1209 Stevenson Room. Contact: Jim De Yoreo, 3-4240, or Josie Morgado, 2-7181.

Tuesday
11

LLNL/UC DAVIS
"Biobriefcase," by Allen T. Christian, Biodefense Division, BBRP. 4-5 p.m., location to be determined at

UC Davis. Contact: Harry Radousky, 2-4478, or Brenda Foster, 3-8257.

LC USER MEETING
As a part of the monthly LC User meeting, at 9:50 a.m., Bing Young will give the status of Voice over IP (VoIP) on the SCF, and at 10:10 a.m., Jim Reus of the CAR-DNT Computing Applications Division will discuss some of the tools from his large personal toolbox that he has accumulated over many years of Unix, C and C++ programming. 9:30-11 a.m., Bldg. 111, Posiedon Room. Contact: Jean Shuler, 3-1909.

Wednesday
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LLNL/UC DAVIS
"The National Plant Diagnostic Network in Agricultural Society," by Rick Bostock, UC Davis, and Carla Thomas, deputy director of the Western Plant Diagnostic Network, UC Davis. 3 p.m., Bldg. 361 auditorium, badge required. Reception will follow. Contact: Harry Radousky, 2-4478 or Brenda Foster, 3-8257.

DIRECTOR'S DISTINGUISHED LECTURER SERIES
"The Heartbeat of Light," by Theodor Hänsch, director Max-Planck-Institut für Quantenoptik. 3:30 p.m., Bldg. 123 auditorium. For more information, go to the DDLS Website: <http://lsto.llnl.gov/DDLS/index.html>. Contact: Mona Garcia, 2-5214.

Friday
14

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"Infrared Emission from Interstellar

Pahs, New Probes of The Interstellar Medium," by Louis Allamandola, NASA Ames Research Center. Noon, Bldg. 319, room 205. Contact: Wil van Breugel, 2-7195, or Sharon Taberna, 3-6290.

CHEMISTRY & MATERIALS SCIENCE MATERIALS SCIENCE & TECHNOLOGY DIVISION SEMINAR
"Physics, Chemistry and Biology of Nanomaterials," by Challa Kumar, Louisiana State University. 3:30 p.m., Bldg. 235, Gold Room. Refreshments will be served at 3:20 p.m. Contact: Tom Felter, 2-8012, or Rebecca Brown-ing, 2-5500.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
"Data Driven Execution of Communication Tolerant Algorithms," by Scott Baden, UC San Diego. 2 p.m., Trailer 3520, room 1174 (property protection area). For more information, go to <http://www.llnl.gov/casc/calendar.shtml>. Contact: Dan Quinlan (CASC), 3-2668, or Leslie Bills, 3-8927.

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The deadline for the next Technical Meeting Calendar is noon, Wednesday.
Send your input to tmc-submit@llnl.gov. For information on electronic mail or the Technical Meeting Calendar List, see the auto registration service on the Web.

AROUND THE LAB



German physicist to discuss ‘heartbeat of light’ in DDLS

Theodor W. Hänsch, director, Max-Planck-Institut für Quantenoptik, Garching, Germany, and professor of physics at Ludwig-Maximilians-Universität, Munich, Germany, will discuss “The Heartbeat of Light,” at 3:30 p.m. May 12 as part of the Director’s Distinguished Lecturer Series.

Hänsch is widely known for his seminal contributions in the field of laser spectroscopy. Hänsch has authored and co-authored more than 400 papers, focusing on coherent nonlinear interactions between light and matter. His early work includes the first narrowband tunable dye laser, the invention of commonly used techniques of Doppler-free

laser spectroscopy and the first proposal for laser cooling of atomic gases.

More recently, he has pioneered a revolutionary simple technique for measuring the frequency of light with ultra-short pulses. Exploring the quantum physics of cold neutral atoms, Hänsch and his coworkers have realized the first two- and three-dimensional atomic lattices bound by light, they have demonstrated the first atom laser that emits a continuous beam of coherent matter waves, and they have shown how to inte-



Theodor W. Hänsch

grate a quantum laboratory for ultracold atoms on a microfabricated “atom chip.”

His presentation will be held in the Bldg. 123 auditorium. For more information, go to <http://lsto.llnl.gov/DDLS/index.html>.

Hänsch’s talk will be rebroadcast on on Lab TV channel 2 at 10 a.m., noon, 2, 4 and 8 p.m. Thursday, May 20, and 4 a.m. Friday, May 21.

Indomitable cancer survivor now leads awareness effort

By Anne M. Stark

NEWSLINE STAFF WRITER

Less than nine months after she had her son Brett, Ronna Oelrich went to an ear, nose and throat specialist because she was having trouble with her hearing.

While she was diagnosed with mild nerve damage in her ears, what came next was a complete shock: she had thyroid cancer.

The 15-year Lab employee, who most recently was working in the support staff in the Defense and Nuclear Technologies Directorate, wasn’t the least bit ready for the flurry of treatments that came next after first being diagnosed in November 2002.

While the nodule on her thyroid was treatable, Ronna, 39, had to have her thyroid removed and would have to go through radioiodine treatment after surgery. By February 2003, her thyroid had been removed and she was getting ready for the radioiodine treatment — a process that takes about a month to prepare for through diet modification that removes all iodine from a human’s system.

In May 2003, she noticed a small bump on her shoulder. Fearful that the bump was cancerous, she underwent a Computerized Axial Tomography (CT) scan and sure enough she was diagnosed with thyroid cancer again. This time it was in a lymph node.

After surgery to remove the cancerous lymph node in June 2003, Ronna was on the road to recovery and prepping for the radioiodine treatment again. During this time, she just happened to go in for her annual mammogram. There was more bad news.

“It was breast cancer,” she said. “By this point, I was going crazy.”

She underwent a lumpectomy, chemotherapy and radiation treatment and is now well enough to talk



JACQUELINE MCBRIDE/NEWSLINE

Ronna Oelrich with son Brett, 2, has survived three bouts of cancer and is now leading a cancer awareness campaign in Livermore.

about it. “Early detection saves lives,” she said. “If I had waited until I was 40 (for my mammogram) who knows how bad it would have been.” Her doctors’ prognosis for a full recovery from both cancers is now very encouraging.

Her husband, Kent Oelrich, who works in the Lab’s Security Department, said he just tried to stabilize their lives.

“My mind was spinning just like hers, but rather than having us both go crazy, I wanted to be someone to stabilize us,” he said. “I wanted us both to just think of this as a part of our lives and to get accustomed to living with it. But all the time I’m thinking the same things she’s thinking, we’ve got a young son and what

if...”

But it was their son, Brett, now 2, who kept Ronna going. “I just wanted to continue to have the strength to put my son to bed at night,” she said. “He’s my little angel.”

Co-workers also helped out during this time. Defense and Nuclear Technologies (DNT) directorate employees arranged to bring dinner to the Oelrichs on Mondays, Wednesdays and Fridays for 2-1/2 months.

“It’s amazing how people will step up,” Kent said. “Daycare became very flexible. B Division organized an effort in DNT to provide meals three times a week. People can be very generous and you don’t always hear about the good things they do.”

Ronna Oelrich is planning to walk in the annual Susan G. Komen Breast Cancer 3-Day 2004 that goes 60 miles from San Mateo to Golden Gate Park on Oct. 15-17. As a survivor, Ronna said it’s important that she participate. She’s even set up a local orientation that will take place at 10 a.m. May 22 at Cedar Grove Community Church in Livermore. If you’re interested in attending the orientation, you may sign up at <http://www.kintera.org/faf/home/ccp.asp?ievent=30112&ccp=31831>.

The walk honors lives lost, celebrates survivors, promotes breast cancer research, and helps bring breast cancer care to those who need it. Every year in the United States, breast cancer claims nearly 40,000 lives.

Net proceeds from the Breast Cancer 3-Days benefit the Susan G. Komen Breast Cancer Foundation to fund breast cancer research, education, screening and treatment programs, as well as the National Philanthropic Trust Breast Cancer Fund, to provide a permanent endowment for breast cancer initiatives. Breast Cancer Awareness Month is October.

ASTRONAUT

Continued from page 1

years ago that he was asked to join the staff as an engineer.

Hernandez has served as branch chief of the Materials and Processes Branch at NASA since 2001.

“This was the ultimate goal,” Hernandez said of his astronaut selection. “I am very excited and very honored to be selected. I feel like I have won the lottery. I can’t wait to begin my training.”

Hernandez’ class is expected to be at the forefront of President Bush’s recent call for expanded space exploration, which includes trips back to the moon and eventual manned flights to Mars.

Hernandez, who will train as a mission specialist, says his astronaut class crew will start with utilization and training of a new launch vehicle and possible

exploration to the moon. There is also the possibility of a shuttle mission or assignment aboard the international space station.

“Any ticket they give me into space I am going to take,” he said. “This is something I’ve wanted since I was a kid.”

Hernandez marks the fourth astronaut affiliated with the Lab. Leroy Chiao worked as a chemical engineer before joining NASA and former astronauts Tammy Jernigan and Jeff Wisoff served with NASA before coming to the Lab. Jernigan is currently the principal deputy associate director of Physics and Advanced Technologies and Wisoff works in the NIF Program.

“Congratulations to Jose on achieving what has been a lifelong goal,” said Steve Patterson, associate director for Engineering. “Throughout his career Jose has distinguished himself though

his professionalism and dedication. We wish him the best as he embarks on this next chapter of his career.”

Hernandez will begin his training on June 14 at the NASA Space Center. From there he goes on to Pensacola, Fla., for training in water survival, followed by flight training. Hernandez says he is looking forward to spending some time in a supersonic T-38 as well as the famed KC-135, aka “the vomit comet,” which astronauts in training use to achieve zero G as the flight moves along its parabolic curves.

Hernandez joined the Lab in 1986 and has worked on digital mammography, the X-ray Laser Program, and the Materials Protection, Control and Accountability Program.

“The Lab had a big impact on how I turned out as a person and an engineer,” Hernandez said. “It helped me reach my ultimate goal.”



CLASSIFIED ADS

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AUTOMOBILES

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Two dozen or so glass canning jars, mostly quart size, free to someone who will use them. 925-447-2687

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Mirror, beveled glass in oak frame. Approx. 20 x 24 inches. \$30.00 925-455-1730

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989-1159

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FOUND: Perscription glasses near 511, oval wire frame and tortoise shell in black padded case. 925-829-3320

FOUND: Bracelet on Lupine Way at lunchtime Wed. 4/28. Var. color stone beads w/gold bead spacers. Hook-and-eye closure. Call and describe to claim. 925-417-8813

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Yard sale May 8. 3913 Fordham way. Items include Sofas, chairs, Beanie babies and other toys. 925-606-6565

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6-person spa \$1500: 1 Lounge& 5 therapy;18 jets:redwood w/full-wall insulation. Ozone filtr;4 yrs of use;excellent condition. Retail for \$7200. 925-443-1779

3 Wheel Mobility Scotter w/ charger. Call for details. \$500 209-838-3279

Rafter/beam clamp. Adjustable clamp allows a heavy punching bag to be hung from a rafter or beam. Mint. \$20.00 925-373-6255

Wente concert tickets, Jewel, june 16, 8:15pm, 2 tickets, first row (left orchestra section) \$275. 925-846-9996

2 Concert Tickets @ Wente Vineyards for Lynyrd Skynyrd. \$116 each, Section: Orchestra Left / Row: B / Seats: 3&4, July 7, 2004 @ 8:15 PM 925-846-9008

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1988 - Beautiful blue Ducati Paso. Only 24000 miles. Many upgrades. Collector model. Well maintained. \$2600 firm. 925-447-5221

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Suzuki violin, 1/4 size, Wolf violin headrest (1/2 size), Violin Strings, all like new. Make offer 415-543-

3643

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Female cat, spayed, gray tabby, 6yrs old, stays indoors. Very affectionate and GREAT with young children and other cats. 925-454-0877

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2002 Sierra Irg tanks awning AC stereo loaded with extras carry 2 ATVs used 4 times in excellent condition asking \$8900 209-862-1219

Hot Tub - 40 Jet, dual 5 hp pumps, waterfalls, fiber optics, valcano fountain, etc... \$5,750 obo. 209-830-4566

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Sea Lion Ocean Kayak, 14 ft. Little use, paddles and Yakima racks, roll-on roof rack. Paid \$1000 for kayak. All for half that. 925-447-5221

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OUTDOOR POOL TABLE, all accessories included. Excellent condition, rarely used, \$1200. OBO. 209-836-1665

Above-ground pool. 4x14x30 foot. Vinyl coated kevlar made by Splash. Oversized filter and pump. Excellent condition. BO over \$3500. View by appt. 925-373-6651

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Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>

Oakland - Looking to join/start a carpool leaving from Oakland (580/13/Mills College) or points east, on a 9/80 8-5:45 schedule. 510-821-0046, ext. 2-2036

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SERVICES

MOTHERS DAY BOUTIQUE: MAY 8th~12:00-4:00pm. Sterling silver jewelry, handcrafted wooden trinket boxes, & handmade bags. 1346 Lexington Way, Livermore 925-449-8131

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Cancun, MX, Palace Resorts, - Gorgeous, on the beach, All Inclusive, Rates Vary by Season. Call for availability and more info. 925-449-6048

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

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SOUTH LAKE TAHOE - 3 Bedroom 2 bath Chalet, nicely furnished, all amenities, great for families.OFF-SEASON RATES NOW! RESERVE NOW for SUMMER VACATIONS! 209-599-4644

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I am looking for a good quality engine stand to rebuild my chevy 350. 925-683-2187

Wanted: my son is looking for a used laptop computer, PII or better, Windows 98, MS Office, 925-455-0836

WANTED a walking/running treadmill in good condition, reasonably priced. Ask for Vicki 925-447-4898

Pack and Play Crib 925-960-0654

Due to space limitations, *Newsline* may withhold ads that have already run. They will still appear on the Web.

NAI

Continued from page 1

Advanced Technologies (PAT) directorate.

At the time, McBride was Biomedical Sciences and Engineering group leader, a joint Engineering/Physics and Advanced Technologies appointment she recently relinquished.

"We've been working on APDS for five years and this paper represents the first peer-reviewed publication describing the system. The paper has really generated a lot of interest within the scientific community. The recognition we've received, by almost immediate acceptance, the positive feedback from our peers outside the Lab and then this selection, are gratifying."

APDS is the Laboratory's next-generation biological detection system, following after the Biological Aerosol Sentry and Information System (BASIS), developed by LLNL and Los Alamos National Laboratory.

BASIS utilizes filters that must be picked up several times a day for analysis and is manpower intensive. This system has been deployed to detect bioterrorism agents as part of the security network for the 2002 Winter Olympics and the one-year commemoration ceremony of the Sept. 11, 2001 attacks in New York City.

The newer APDS technology, however, can be deployed for a week without human intervention and report any pathogen releases in its vicinity to operators at a central location.

APDS was developed by a multi-disciplinary team of Lab researchers that included chemists, physicists, biologists, engineers and software engineers.

In their experiment in Utah, the Lab and Dugway researchers released aerosols of two live virulent agents — *Bacillus anthracis*, which causes anthrax; and *Yersinia pestis*, which causes plague.

The two agents were released individually and detected. They were also released simultaneously and detected in tandem.

"Using APDS, we were able to detect the simultaneous release of *B. anthracis* and *Y. pestis*," McBride said. "To the best of our knowledge, this is the first time this has been done."

Every quarter, the CAS' 535 chemistry analysts — including 45 in other nations — review more than 200,000 documents, including articles from more than 9,000 journals and more than 45 patent-producing



Chemical Abstracts Service named a journal article about the Lab's APDS, above, as the "most intriguing" paper out of about 200,000 documents reviewed.

authorities. They can suggest articles as among the "most intriguing."

Some 25,000 to 50,000 articles each quarter are further reviewed by 50 CAS scientists who also suggest the "most intriguing" articles. Those are then whittled down to 28 articles before the final 5-10 articles for that quarter's "most intriguing" are chosen.

"There are several facets that caused the Livermore-Dugway paper to be selected as 'most intriguing,'" said Dr. Matthew Toussant, vice-president of editorial operations for CAS.

"First, the article discussed the use of an aerosol system. And second, in many papers the testing isn't realistic, but in this case they were using live agents. The detection threshold was realistic and sensitive," Toussant said.

"In the case of this paper, upon team review, it was unanimously viewed as 'very intriguing,'" Toussant added.

PECASE

Continued from page 1

John H. Marburger III in a White House ceremony. They were also honored by Energy Secretary Spencer Abraham in a special ceremony at DOE headquarters.

Orme, a physicist in the Laboratory's Chemical Biology and Nuclear Science Division of the Chemistry and Materials Science Directorate, is honored "for her work in understanding the physical mechanisms of biomineralization and the development of force microscopy-based methods of investigating mineralization at the nanoscale."

Chow, a computer scientist in the Computation Directorate, is honored "for research into preconditioning methods for discretized partial differential equations that has enabled scientists at LLNL to perform implicit simulations that were previously impossible. His planned research will produce still more sophisticated techniques; these will greatly facilitate the manner in which numerical simulation methods are developed and applied."

The PECASE program recognizes outstanding scientists and engineers who, early in their careers, show exceptional potential for leadership at the frontiers of knowledge. This Presidential Award is the highest honor bestowed by the U.S. government on scientists and engineers beginning their independent careers.

"I am thrilled that Edmond and Christine have been honored with Early Career Awards," Laboratory Director Michael Anastasio said. "These prestigious awards recognize cutting edge science. Innovation and technical excellence positions our Laboratory to effectively meet future scientific and national security challenges. My sincere congratulations to these two out-

standing employees."

Chow and Orme are among 57 awardees of the 2002 PECASE.

"Each of these researchers has made a distinctive contribution both as an independent investigator and as a team member," Abraham said. "Individually and collectively, they continue to be sources of invaluable technical direction and expertise in support of the department's research and development and national security missions."

Orme's work has risen to a position of prominence within the biomineralization and crystal growth communities. Orme's research examines, on an atom-by-atom, molecule-by-molecule basis, the organization of materials on surfaces and learning how that organization affects material properties.

"It is an incredible honor to have been selected for the Presidential Award and to represent the Department of Energy's science program," Orme said. "I hope to use this award to study the biological and physical interactions at surfaces in support of human health and national security."

Her research on the mechanisms by which living organisms control materials design and synthesis has catalyzed a new understanding of the stereochemistry of biomineralization. This work has implications for a wide variety of topics ranging from the biomimetic synthesis of nanostructures to the origins of life on Earth.

Orme has established herself as a skilled experimentalist with strong expertise in instrumentation and has taken her background in surface science and crystal growth physics to become one of the lead scientists for corrosion studies for the Yucca Mountain Project.

Chow's research involves mathematical algo-

The selection by CAS scientists of "most intriguing" articles started in March 2003 and is a part of Science Spotlight, which includes articles "most cited" and "most requested."

"We thought users coming to Science Spotlight might be interested in articles we considered 'most intriguing,'" said Eileen Shanbrom, manager for CAS and Web content. "It occurred to us that since we have scientists studying these articles, they could select the 'most intriguing' articles."

The CAS scientists, about 50 percent of whom have advanced scientific degrees, study papers in chemistry and related sciences, such as biosciences, nanotechnologies, materials science, polymers, genetics and pharmacology.

Co-authors on the paper from LLNL are: Don Masquelier, Steve Brown, Thomas Metz and Keith Burris (now retired), from Engineering; Benjamin Hindson, Anthony Makarewicz, and Kodumudi Venkateswaran, from PAT; Bill Colston, associate program leader for M Division in PAT; Fred Milanovich, founder of the Lab's Chemical and Biological National Security Program; and Richard Langlois of the Biology and Biotechnology Research Program.

Other co-authors, from the West Desert Test Center, are Kar Wing Tsang, test director; Ruth Bryan, technician; and Doug Anderson, Biological Aerosol Division leader.

The Lab's APDS technology is designed for use in convention centers, office complexes, transportation centers and other locations to detect the chemical release of pathogens.

Another paper selected by CAS scientists, as the sixth "most intriguing" article of the fourth quarter of 2003, was an article co-authored by another Lab employee, Olgica Bakajin.

She worked with scientists from the Laboratory of Chemical Physics at the National Institute of Diabetes and Digestive and Kidney Diseases, which is part of the National Institutes of Health, to develop a method for investigating protein folding one molecule at a time.

Their observations, published in *Science* magazine, are the first measurement of protein-folding kinetics on the single-molecule level.

Bakajin did her work under a Lawrence fellowship awarded in October 2000 and then with Laboratory Directed Research and Development money for about two years.

Bakajin now works as a biophysicist/nanoscientist in the Laboratory's Biosecurity and Nanosciences Laboratory.

rithms for solving large, sparse linear systems used in supercomputer simulation codes by physicists and engineers within DOE and around the world. These algorithms are designed to be parallel and to run efficiently on Livermore's ASCI-class computers, each with thousands of processors.

Chow has recently taken his expertise in algorithms and parallel computing and started a Laboratory Directed Research and Development (LDRD) project to study very large-scale complex networks. These networks, like the graph of the Web, or the network of who-knows-who of everyone in the world, have far-reaching applications, from epidemiology to information analysis.

"I am truly honored to be chosen for a PECASE award," he said. "I am grateful to all the talented scientists who have helped and inspired me with their own work."

PECASE, established in 1996, honors the most promising beginning researchers in the nation within their fields. Eight federal departments and agencies annually nominate scientists and engineers at the start of their careers, whose work shows the greatest promise to benefit the nominating agency's mission. Participating agencies award these beginning scientists and engineers up to five years of funding to further their research in support of critical government missions.

The awards foster innovative and far-reaching developments in science and technology, increase awareness of careers in science and engineering, give recognition to the scientific missions of participating agencies, enhance connections between fundamental research and national goals and highlight the importance of science and technology for the nation's future.

FIREFIGHTERS
Continued from page 1

The Laboratory has once again responded to Southern California wildfires by dispatching a strike team of five firefighters earlier this week.

For their efforts last year, each strike team and each firefighter received special plaques honoring their “expertise, dedication and professionalism” in saving “numerous homes, structures and property” from the largest wildfire in California history.

“Their heroic actions have brought great credit to the Department of Energy and Lawrence Livermore National Laboratory,” said NNSA Administrator Linton Brooks, in the inscription on each award.



JOSEPH MARTINEZ/TID

Firefighters from the Lab were recently honored by the NNSA for their assistance in fighting two wildfires in Southern California last October. Three strike teams and 10 firefighters were dispatched from the Lab to fight the Grand Prix fire in San Bernardino County, and the Cedar fire in San Diego County. They were awarded plaques by Lab Director Michael Anastasio and Camille Yuan-Soo Hoo, manager of the Livermore Site Office of the NNSA. From left are firefighters Mike Moyles and Ken Willet, Anastasio, Randy Carter, Yuan-Soo Hoo and firefighter Cindy Mariolle.

Director Michael Anastasio, who presented the awards, along with NNSA Site Manager Camille Yuan-Soo Hoo, noted the Lab’s fire-

fighting force was just as much a part of the Lab’s security missions as its programs.

“You are there to protect us everyday. You put your lives on the line. We are proud and honored to have such an effective organization so committed to our safety and security.”

The firefighters honored included Battalion Chief James Watkins, Battalion Chief Mike McLaughlin, Capt. Randy Carter, Capt. Robert Verdie, and firefighters Kyle Willet, Cindy Mariolle, Mike Moyles, Ken Rinna, Matt Portteus and Stephen Keating.

Also attending the awards ceremony were Deputy Director Glenn Mara, Associate Director Den Fisher, Fire Chief Randy Bradley and Phil Hill, of the Livermore Safety Oversight Division.

SCHULTZ
Continued from page 1

out, Schultz says he hasn’t given it much thought. At least not for now.

In talking with various colleagues who have gone on before him, Schultz has learned there are two schools of thought when it comes to pursuing life after the Laboratory. He can meticulously plan out his retirement, accounting for what seems like every minute of time. Or he can kick up his heels and relax a bit, “and see what this retirement thing is all about before I commit myself,” he smiled.

“I want to take some time to decide just how much free time I want to have and what I really want to do. My wife has convinced me that there’s no rush.”

While the decision to retire required some soul searching, Schultz admits it became much easier when his wife, Susie (long time administrator for Bob Kuckuck in the Director’s

Office) retired in April.

“I’ve seen a lot of changes,” he said of the Lab and the community. “I remember when Livermore was just a cowboy town mixed in with a few physicists.”

Schultz has also seen plenty of changes at the Lab, but the one he cites as most important was the Lab’s move to “become more business-like. I know that sometimes scientists are concerned it may restrict them, but we usually can find an appropriate way to accomplish all that is desired, and it’s given us important credibility. We have proven that we can deliver the science while adhering to good business practices.”

Schultz broke into the Lab in 1968 as an electrical engineer, shortly after his son, Craig was born, (who now works at the Lab in the Energy and Environment Directorate). He joined the laser program when it was still in its infancy. Back then it was called Q Division, and Schultz said he was impressed by the great equipment available and all the resources and

flexibility given to researchers. “The decision was easy to come to the lab.”

Schultz worked in Q Division for several years before joining up with Ed Lafranchi to work on the operations side of the Electrical Engineering Department. Then in 1978 he joined the Nuclear Test Program as a program manager, managing budgets at both the Lab and the Nevada Test Site for seven years.

In 1985 he joined the Budget Office as the Budget Officer and then became controller in 1995. That title was changed to chief financial officer in 2001.

“Working at the Lab you always have the opportunity to do so many different things, and I’ve always managed to get an assignment I really enjoyed,” Schultz summed up.

While Schultz will keep a hand in a few post retirement projects for the Lab and DOE, he says the finality of his career has settled in. “Now I have to face the prospect of packing. After 36 years, you accumulate quite a bit.”

An admirable visit



JOSEPH MARTINEZ/TID

Wayne Shotts, left, associate director for Nonproliferation, Arms Control and International Security, and Director Michael Anastasio flank Vice Admiral Lowell E. Jacoby, director of the Defense Intelligence Agency, during a visit earlier this week.



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